

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Jay C. Brinkmeyer

Confirmation No.:

Application No.:

Examiner: Mizrahi, Diane D.

Filing Date: Herewith

Group Art Unit: 2175

Title: COMPUTER SYSTEM USING A QUEUEING SYSTEM AND METHOD FOR MANAGING A  
QUEUE AND HETEROGENOUS DATA STRUCTURES

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EL 982 235 821 US**

Date of Deposit **09-09-2003**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: **Michael G. Fletcher**

Respectfully submitted,

**Jay C. Brinkmeyer**

By

**Michael G. Fletcher**

Attorney/Agent for Applicant(s)

Reg. No. **32,777**

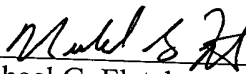
Date: **09-09-2003**



Accordingly, Applicants have not submitted copies of any U.S. Patents or any U.S. Patent Application Publications cited on the attached form PTO-1449.

Respectfully submitted,

Date: September 9, 2003

  
\_\_\_\_\_  
Michael G. Fletcher  
Reg. No. 32,777  
FLETCHER YODER  
(281) 970-4545

**CORRESPONDENCE ADDRESS:**  
IP Administration  
Legal Department, M/S 35  
**HEWLETT-PACKARD COMPANY**  
P.O. Box 272400  
Fort Collins, CO 80527-2400

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	<b>200303934-3</b>		
	APPLICANT		
	<b>Jay C. Brinkmeyer</b>		
	FILING DATE	GROUP	
	<b>Her with</b>	<b>2175</b>	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,386,514	01/31/95	Lary et al.	
	1B	5,410,722	04/25/95	Cornaby	
	1C	5,574,912	11/12/96	Hu et al.	
	1D	5,602,998	01/11/97	Alferness et al.	
	1E	5,625,846	04/29/97	Kobayakawa et al.	
	1F	5,729,749	03/17/98	Ito	
	1G	5,748,954	05/05/98	Mauldin	
	1H	5,819,251	10/06/98	Kremer et al.	
	1I	5,873,089	02/16/99	Regache	
	1J	6,041,053	03/21/00	Douceur et al.	
	1K	6,389,513 B1	05/14/02	Closson, Kevin A.	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Mendel, Brett; "Server I/O all set to flow"; Lantimes, October 27, 1997, Vol. 14, Issue 22; cover page and page 31
	1R	Briggs, Chris; "Smarter and Fraster I/O for Servers"; CORE: Operating Systems; Byte, May 1, 1996, Vol. 2, No. 5
	1S	Thompson, Tom; "I2O Beats I/O Bottlenecks"; Byte, August 1997, pp. 85, 86 and 3 additional pages

EXAMINER

DATE CONSIDERED

**PATENT APPLICATION**

Sheet 2 of 6

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	<b>200303934-3</b>		
	APPLICANT		
	<b>Jay C. Brinkmeyer</b>		
	FILING DATE	GROUP	
	<b>Herewith</b>	<b>2175</b>	

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	2A	6,490,666 B1	12/03/02	Cabrera et al.	
	2B				
	2C				
	2D				
	2E				
	2F				
	2G				
	2H				
	2I				
	2J				
	2K				

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	2Q	I2O Introduction; Technology Backgrounder; August 13, 1997; <a href="http://www.i2osig.org/Architecture/TechBack.html">http://www.i2osig.org/Architecture/TechBack.html</a>
	2R	"i960 RP I/O Processor - the I2O SIG site; <a href="http://134.134.214.1/design/iio/i2osig.html">http://134.134.214.1/design/iio/i2osig.html</a> ; February 6, 1998
	2S	"Welcome to the I2O SIG Web Site!"; <a href="http://www.i20sig.org">http://www.i20sig.org</a> ; February 6, 1998

EXAMINER	DATE CONSIDERED
----------	-----------------

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	<b>200303934-3</b>		
	APPLICANT		
	<b>Jay C. Brinkmeyer</b>		
	FILING DATE	GROUP	
	<b>Her with</b>	<b>2175</b>	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	3A				
	3B				
	3C				
	3D				
	3E				
	3F				
	3G				
	3H				
	3I				
	3J				
	3K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	3L					
	3M					
	3N					
	3O					
	3P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

3Q	"About I2O Technology"; <a href="http://www.i2osig.org/Architecture">http://www.i2osig.org/Architecture</a> ; February 6, 1998	
3R	"Technology Backgrounder"; <a href="http://www.i2osig.org/Architecture/TechBack.html">http://www.i2osig.org/Architecture/TechBack.html</a> ; February 6, 1998; 6 pages	
3S	"Questions and Answers"; <a href="http://www.i2osig.org/Architecture/QandA.html">http://www.i2osig.org/Architecture/QandA.html</a> ; February 6, 1998; 4 pages	

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200303934-3

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

Jay C. Brinkmeyer

FILING DATE

H r with

GROUP

2175

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	4A				
	4B				
	4C				
	4D				
	4E				
	4F				
	4G				
	4H				
	4I				
	4J				
	4K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	4L					
	4M					
	4N					
	4O					
	4P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

4Q	I2O Specifications for Non-Members"; <a href="http://www.i2osig.org/Architecture/GetSpec.html">http://www.i2osig.org/Architecture/GetSpec.html</a> ; February 6, 1998
4R	Amdahl, Carlton G.; "I2O Future Directions"; <a href="http://www.i2osig.org">http://www.i2osig.org</a> ; June 1996; 12 pages
4S	Goble, Scott et al.; "Intelligent I/O Architecture"; <a href="http://www.i2osig.org">http://www.i2osig.org</a> ; June 1996, 22 pag s

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200303934-3

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

Jay C. Brinkmeyer

FILING DATE

H rewith

GROUP

2175

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	5A				
	5B				
	5C				
	5D				
	5E				
	5F				
	5G				
	5H				
	5I				
	5J				
	5K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	5L					
	5M					
	5N					
	5O					
	5P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

5Q	"Press Releases and Clips"; <a href="http://www.i2osig.org/Press">http://www.i2osig.org/Press</a> ; February 6, 1998; 4 pages
5R	Listing of Press Releases; <a href="http://altavista.digital.com/cgi-bin/quer.....=21%2FMar%2F86&amp;d1=&amp;search.x=46&amp;search.y=6">http://altavista.digital.com/cgi-bin/quer.....=21%2FMar%2F86&amp;d1=&amp;search.x=46&amp;search.y=6</a> ; February 6, 1998, 2 pages
5S	Crothers, Brooke; "Intel server chip gets big backing", October 7, 1997; <a href="http://www.news.com/News/Item/0,4,14962,00.html">http://www.news.com/News/Item/0,4,14962,00.html</a> ; February 6, 1998

EXAMINER

DATE CONSIDERED

**PATENT APPLICATION**

Sheet 6 of 6

FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**200303934-3**

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

**Jay C. Brinkmeyer**

FILING DATE

**Herewith**

GROUP

**2175****REFERENCE DESIGNATION****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	6A				
	6B				
	6C				
	6D				
	6E				
	6F				
	6G				
	6H				
	6I				
	6J				
	6K				

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	6L					
	6M					
	6N					
	6O					
	6P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	6Q	"HP Demonstrates Commitment to I2O Standard With New I2O Disk-array Controller"; Hewlett Packard; Press Release, Atlanta, Oct. 8, 1997; <a href="http://hpcc920.external.hp.com/pressrel/oct97/08oct97b.html">http://hpcc920.external.hp.com/pressrel/oct97/08oct97b.html</a> ; February 6, 1998, 2 pages
	6R	"I2O: Disaster in the making for the freeware community"; <a href="http://22.kenandted.com/i2o/disaster.html">http://22.kenandted.com/i2o/disaster.html</a> ; February 6, 1998, 2 pages
	6S	

EXAMINER

DATE CONSIDERED